

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Previously Presented) A method of computing comprising:

receiving at execution time, a data processing specification having a first and a second data processing cell specification, unnested with respect to each other, specifying a first and a second data processing cell respectively, with each data processing cell specification having a plurality of statements including a formula specifying an action or computation, the first data processing cell having a data dependency on the second data processing cell, and specified in a manner to be analyzed before the second data processing cell;

analyzing in real time, the first and then the second data processing cell specification to determine execution order of said actions/computations specified by said first data processing cell specifications, based at least in part on interaction or computation references between said actions or computations specified; and

effectuating the data processing specified by the data processing specification in accordance with the determined execution order of said actions/computations specified by said first and second data processing cell specifications.

2. (Previously Presented) The method of claim 1, wherein each of said first and second data processing cell specifications is delineated by a beginning and an ending data processing cell specification tag.

3. (Previously Presented) The method of claim 1, wherein said first data processing cell specification has a formula referencing a value of said second data processing cell specification.

4. (Previously Presented) The method of claim 1, wherein one or both of said first and second data processing cell specifications comprise one or more attribute specifications specifying one or more attributes of the corresponding data processing cell(s).
5. (Previously Presented) The method of claim 4, wherein the first data processing cell has a first attribute referencing a second attribute of said second data processing cell.
6. (Previously Presented) The method of claim 1, wherein said second data processing cell specification comprises a reserved mnemonic for providing input to the data processing specified by the data processing specification.
7. (Previously Presented) The method of claim 1, wherein said first data processing cell specification is a reserved output cell specification specifying output of the data processing specified by the data processing specification.
8. (Previously Presented) The method of claim 1, wherein said second data processing cell specification comprises a conditionally executed formula.
9. (Original) The method of claim 1, wherein said data processing specification further includes one or more global attributes specifying one or more global processing characteristics for the specified data processing.
10. (Original) The method of claim 9, wherein said one or more global attributes include a global attribute specifying a format for providing the specified data processing with an HTTP request.
11. (Previously Presented) An apparatus comprising:
at least one storage unit having stored thereon programming instructions designed to:

receive at execution time, a data processing specification having a first and a second data processing cell specification, unnested with respect to each other, specifying a first and a second data processing cell, with each data processing cell specification having a plurality of statements including a formula specifying an action or computation, the first data processing cell having a data dependency on the second data processing cell, and specified in a manner to be analyzed before the second data processing cell,

analyze in real time, the data processing specification to determine an execution order of said actions/computations specified by said first and second data processing cell specifications, based at least in part on interaction or computation references between said actions or computations specified, and

effectuate the data processing specified by the data processing specification in accordance with the determined execution order of said actions/computations specified by said first and second data processing cell specifications; and

at least one processor coupled to said at least one storage unit to execute said programming instructions.

12. (Previously Presented) The apparatus of claim 11, wherein the programming instructions are designed to recognize delineation of each of said first and second data processing cell specifications by a beginning and an ending data processing cell specification tag.

13. (Previously Presented) The apparatus of claim 11, wherein said programming instructions are designed to support said first data processing cell specification having a formula referencing a value of the second data processing cell specification.

14. (Previously Presented) The apparatus of claim 11, wherein said programming instructions are designed to support one or both of said first and second data processing cell

specifications having one or more attribute specifications specifying one or more attributes of the corresponding data processing cell(s).

15. (Previously Presented) The apparatus of claim 14, wherein said programming instructions are designed to support the first data processing cell having a first attribute referencing a second attribute of said second data processing cell.

16. (Previously Presented) The apparatus of claim 11, wherein said programming instructions are designed to support said second data processing cell specification having a reserved mnemonic for facilitating provision of input to the data processing specified by the data processing specification.

17. (Previously Presented) The apparatus of claim 11, wherein said programming instructions are designed to support said first data processing cell specification being a reserved output cell specification specifying output of the data processing specified by the data processing specification.

18. (Previously Presented) The apparatus of claim 11, wherein said programming instructions are designed to support said second data processing cell specification having a conditionally executed formula.

19. (Previously Presented) The apparatus of claim 11, wherein said programming instructions are designed to support said data processing specification having one or more global attributes specifying one or more global processing characteristics for the specified data processing.

20. (Original) The apparatus of claim 19, wherein said programming instructions are designed to support one of said one or more global attributes being a global attribute specifying a format for providing the specified data processing with an HTTP request.

21. (Previously Presented) An apparatus comprising:

means for receiving at execution time, a data processing specification having a first and a second data processing cell specifications, unnested with respect to each other, specifying a first and a second data processing cell, with each data processing cell specification having a plurality of statements including a formula specifying an action or computation, the first data processing cell having a data dependency of the second data processing cell, and specified in a manner to be analyzed first;

means for analyzing and determining in real time, execution order of said actions/computations specified by said first and second data processing cell specifications, based at least in part on interaction or computation references between said actions or computations specified; and

means for effectuating the data processing specified by the data processing specification in accordance with the determined execution order of said actions/computations specified by said first and second data processing cell specifications.

22. (New) The method of claim 1, further comprising saving, after said determining, the execution order.

23. (New) The apparatus of claim 11, wherein the programming instructions are further designed to save the execution order after said determining.

24. (New) The apparatus of claim 21, further comprising means for storing the execution order after said determining.